

0590 0770-0590
CRF Errors Corrected by the STIC Systems Branch 215
CRF Processing Date: 1/26/2002

Serial Number: 10/037,598

Edited by: V rifled by: (STIC staff)

Changed a file from non-ASCII to ASCII **ENTERED**

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically: #2

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 1001

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 1001

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____.

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically: 11807 response

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



PCR/10

RAW SEQUENCE LISTING DATE: 01/26/2002
 PATENT APPLICATION: US/10/037,598 TIME: 16:29:31

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF3\01252002\J037598.raw

3 <110> APPLICANT: Monsanto Co
 4 Concibido, Vergel
 5 Delaney, Xavier
 7 <120> TITLE OF INVENTION: Soybean Plants with Enhanced Yields and Methods for Breeding
 for and
 8 Screening of Soybean Plants with Enhanced Yields
 10 <130> FILE REFERENCE: 38-21(52175)B
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/037,598
 C--> 12 <141> CURRENT FILING DATE: 2002-01-04
 12 <150> PRIOR APPLICATION NUMBER: 60/260,040
 13 <151> PRIOR FILING DATE: 2001-01-05
 15 <160> NUMBER OF SEQ ID NOS: 37
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 24
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Glycine max
 24 <400> SEQUENCE: 1
 25 ggcgcgacaac tctaattaaaa atct 24
 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 23
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Glycine max
 33 <400> SEQUENCE: 2
 34 gccggagtttg atttttcaaa agt 23
 37 <210> SEQ ID NO: 3
 38 <211> LENGTH: 25
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Glycine max
 42 <400> SEQUENCE: 3
 43 gcgttttaat ttatgtatata accaa 25
 46 <210> SEQ ID NO: 4
 47 <211> LENGTH: 24
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Glycine max
 51 <400> SEQUENCE: 4
 52 ggcgttttccat tctttttccaa caac 24
 55 <210> SEQ ID NO: 5
 56 <211> LENGTH: 25
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Glycine max
 60 <400> SEQUENCE: 5
 61 atcaatcgac gcaataatca agaaaa 25
 64 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,598

DATE: 01/26/2002
TIME: 16:29:31

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01252002\J037598.raw

```

65 <211> LENGTH: 25
66 <212> TYPE: DNA
67 <213> ORGANISM: Glycine max
69 <400> SEQUENCE: 6
70 atgatgagaa gacaatggga tgtca
73 <210> SEQ ID NO: 7
74 <211> LENGTH: 25
75 <212> TYPE: DNA
76 <213> ORGANISM: Glycine max
78 <400> SEQUENCE: 7
79 caggcttcag tgtgcataat acagg
82 <210> SEQ ID NO: 8
83 <211> LENGTH: 25
84 <212> TYPE: DNA
85 <213> ORGANISM: Glycine max
87 <400> SEQUENCE: 8
88 ttcttatgttc cctgtgcaaa cactg
91 <210> SEQ ID NO: 9
92 <211> LENGTH: 25
93 <212> TYPE: DNA
94 <213> ORGANISM: Glycine max
96 <400> SEQUENCE: 9
97 gtctgcaagg taacagtgtc agagg
100 <210> SEQ ID NO: 10
101 <211> LENGTH: 26
102 <212> TYPE: DNA
103 <213> ORGANISM: Glycine max
105 <400> SEQUENCE: 10
106 cacactcaat ctcatttagca gacacg
109 <210> SEQ ID NO: 11
110 <211> LENGTH: 25
111 <212> TYPE: DNA
112 <213> ORGANISM: Glycine max
114 <400> SEQUENCE: 11
115 tcctttggct cactattgac gattt
118 <210> SEQ ID NO: 12
119 <211> LENGTH: 25
120 <212> TYPE: DNA
121 <213> ORGANISM: Glycine max
123 <400> SEQUENCE: 12
124 acccggtgtc cacttaact acatt
127 <210> SEQ ID NO: 13
128 <211> LENGTH: 25
129 <212> TYPE: DNA
130 <213> ORGANISM: Glycine max
132 <400> SEQUENCE: 13
133 taacgctgca tgatttgagt tctgt
136 <210> SEQ ID NO: 14
137 <211> LENGTH: 25

```

RAW SEQUENCE LISTING DATE: 01/26/2002
PATENT APPLICATION: US/10/037,598 TIME: 16:29:31

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01252002\J037598.raw

138 <212> TYPE: DNA
139 <213> ORGANISM: Glycine max
141 <400> SEQUENCE: 14
142 gtattggttg gactttggag accac
145 <210> SEQ ID NO: 15
146 <211> LENGTH: 28
147 <212> TYPE: DNA
148 <213> ORGANISM: Glycine max
150 <400> SEQUENCE: 15
151 gcggacaatt ttttatcaat aatttatt
154 <210> SEQ ID NO: 16
155 <211> LENGTH: 28
156 <212> TYPE: DNA
157 <213> ORGANISM: Glycine max
159 <400> SEQUENCE: 16
160 gcgatgctta cttttcttat gatcactt
163 <210> SEQ ID NO: 17
164 <211> LENGTH: 24
165 <212> TYPE: DNA
166 <213> ORGANISM: Glycine max
168 <400> SEQUENCE: 17
169 gcgttagcaac aaagcaatct acag
172 <210> SEQ ID NO: 18
173 <211> LENGTH: 29
174 <212> TYPE: DNA
175 <213> ORGANISM: Glycine max
177 <400> SEQUENCE: 18
178 gcgtccatt ttattccaca ctatgtaat
181 <210> SEQ ID NO: 19
182 <211> LENGTH: 235
183 <212> TYPE: DNA
184 <213> ORGANISM: Glycine max
186 <400> SEQUENCE: 19
187 cgacaactct aatggaaaatc tttatttatta ttatttattat tatttattatt attattatttc
189 acgaagttcc cttaaaaaat ctttagtaag acacatgcat taatttatatg acaataaaaa
191 aaaaaagaat tcaaatgttt caaaatgaaa aatcattaaat tcaattttat gtcaattatt
193 attatttatta ttataacatt aattactttg aattgacttt tgaaaaatca aactc
196 <210> SEQ ID NO: 20
197 <211> LENGTH: 272
198 <212> TYPE: DNA
199 <213> ORGANISM: Glycine max
201 <400> SEQUENCE: 20
202 tttaattta tgatataacc aaatagtatt cctatttatta ttatttattat tatttattatt
204 attatttatta ttatttattat tatttattaa agttatacat gtaaatattt tttaaggtg
206 acattctgaa taaatttttta tatgtgattt gggaaaagta gagacaagtt caccctaaaa
208 ttaatattca gtaagtggaa cgctctccaaa tttatttataa aaattgtaaa tattttattct
210 atgcgactga agttgtggaa aaagagataa aa
213 <210> SEQ ID NO: 21
214 <211> LENGTH: 280

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,598

DATE: 01/26/2002
TIME: 16:29:31

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01252002\J037598.raw

215 <212> TYPE: DNA
216 <213> ORGANISM: Glycine max
218 <400> SEQUENCE: 21
219 atcaatcgac gcaataatca agaaaatcaa acatggatc agtaattaat tttaaataag 60
221 attatatata tatatatata tatatatata tatatatata gacaccccaa 120
223 taaaaatcat attaaaacaa ttataattca taatattcg aataaataaa aatattgaaa 180
225 taaaatggcaa cacctcatcg tattcaaaa aatataattg acacaacttt atactcaatt 240
227 ttttggttcc tggaatgaca tcccattgtc ttctcatcat 280
230 <210> SEQ ID NO: 22
231 <211> LENGTH: 366
232 <212> TYPE: DNA
233 <213> ORGANISM: Glycine max
235 <400> SEQUENCE: 22
236 caggcttcag tgtgcataat acaggtttct gttgggtggga ctttctccca acatttcatt 60
238 ttgggatttt ctcccaacct ttattttgc tgaccttagt cgtaatagtt ctaaccttcc 120
240 ttccttcctt catgtttcat tcgtgatct gttttttggg atttcagggg gtttttgag 180
242 cctagtaggg ggccaggtgt caacctatacg ttgggatttc accccttagg ctgaaatttc 240
244 ctttcctcac ttaagtaaaa aaaaaaaacaa aaagttttag tttttgtatg aaaatgcttt 300
246 tttatagcaa ttttatatga ttagaaaatt aaactattcc ccagtgtttg cacagggAAC 360
248 atagaa 366
251 <210> SEQ ID NO: 23
252 <211> LENGTH: 96
253 <212> TYPE: DNA
254 <213> ORGANISM: Glycine max
256 <400> SEQUENCE: 23
257 gtctgcaagc taacagtgtc agaggatatg aatatttagta ttattaacaa taataataat 60
259 aatgatgaaa cgtgtctgct aatgagattt agtgtt 96
262 <210> SEQ ID NO: 24
263 <211> LENGTH: 321
264 <212> TYPE: DNA
265 <213> ORGANISM: Glycine max
267 <400> SEQUENCE: 24
268 tcctttggct cactattgac gatTTTCTCG atgattaatt gacccaaacat tctgtttgt 60
270 actttattta taaaacaaat atttgtactt caattataac aacaaattta agaagaatat 120
272 atatataatat atatttgtga tggaaatgtat catgaaagaa acagaatcaa tatttcttat 180
274 aatcaagaaa aataatagac tcattttattt cttataaaaaa gaaggagata aagtataaaa 240
276 tacaaatgtt aaacataaaa gaaaaaaaaa cttttttgtt ccggatgtt aacgaaaatg 300
278 tagttaaagt ggcacacggg t 321
281 <210> SEQ ID NO: 25
282 <211> LENGTH: 185
283 <212> TYPE: DNA
284 <213> ORGANISM: Glycine max
286 <400> SEQUENCE: 25
287 taacgctgca tgatttgagt tctgtttgtt cggcgggac tagggacaaa tatattttt 60
289 gttagttat ttgtatattt attgggtata tgcgtgaatg taagttattt ggccatgcat 120
291 gtgtgtgtgt gtggtagtga gaagaattga gaaaaagaat gtggtctcca aagtccaaacc 180
293 aatac 185
296 <210> SEQ ID NO: 26
297 <211> LENGTH: 3830

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,598

DATE: 01/26/2002
TIME: 16:29:31

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01252002\J037598.raw

298 <212> TYPE: DNA
299 <213> ORGANISM: Glycine max
301 <400> SEQUENCE: 26
302 tgtgtttac aatatttaga gaaacttgg tatatcaca aaaaattgt aagacaaaatt 60
304 aatgtcaagt gagtttagaa tactaaatga aaatttAAC ataaaaaaaaaaa aaaaatcaat 120
306 ggaatggAAC ccattccagcg caactagctg agtacatac agtgcAAAA gacatggta 180
308 ctacaaatgc tcactttAGT ggctatggaa caaccatcag cattcagctc ttccTTTT 240
310 ctgtcgtagg ccaagagaca aagttgtca caggTTACA aattgattgt ggccacaatc 300
312 acacggtaaa cattagaatg gaagaaaaaa aatctgtcta tGATCGATGT cgtGAACttc 360
314 accccactcca tcaatgaaga atttatttta aatacagttt cacaccaact taataagact 420
316 ttttgacaaa aattacctga ttgggaggaa tatgaattgt ttataaaatc acgtattcac 480
318 aagttctact tttacaaaac tctttacatg tattttccaa aaaaagaaaa atctttacat 540
320 gtatgttaac ctacctaaca aatctctaatt taacctataa attttttaaa tgcttttga 600
322 gaaaacttta taggcagata gaagattttt gagagtttt taaatgctta tcaacaatct 660
324 ccgatagttcc tttagcttta ccaagtagat gaaaatctt catataatgc ttttacttta 720
326 ccaactattt acttgagcac cgaaaatctt accagtatgc tcatttgatg catattaaaa 780
328 tgtacaaaat ttatagagg cctgtatcaat accatcgaat gaaaccttta tgacatgct 840
330 cttgttagcg atgtcaataa aggcttactc aaggattttt ccacaggctt aaatcataga 900
332 caatTTTact taatttttatttatttcaatta gtccttagat gtcaaaagaat ctatttagatg 960
334 atagtttttag tggcatgata gagaatgaaa cccacatctt taaaaaaaaaag aagacaaaag 1020
336 ttagtttttag atctttaatc acttgtgtga attcatattt gttttacgtg tattcgaagt 1080
338 gaaaatattt atctgtatgaa gaccataaac attcttattt gagaacttgg tgaagtataa 1140
340 tttttcatag tacagtaaaag ctgatttttgg tttttctcg tacgaaaaat ttatattcag 1200
342 gacaatgttt aagagtggaa acataataaa attaacctca caaaaagtaa gtatataat 1260
344 atatatataat atatataataat ctcaatcaat taaaataataa ataaggacaa 1320
346 ataaatatagat tctcacaaaa tataattttat tattaaattt atttttaaca ttataactta 1380
348 acgataaaaat attttttttta tattttttta tgaacttaatt taacaactca tcacatctt 1440
350 caaaacaaaaa tgaatcattt atcctaataa taatttaattt taggcgttta ttttatgatg 1500
352 attttagcatc ttttgggag aatactaaaa aacatataaa agaaaaagaa atattcagga 1560
354 tggaaaaatga aatgcgtgtg aaaattggaa ggaggtaagg ctgggtcgac ccagatctag 1620
356 ttgagctcac caactcccgcc tcccatTTCC ttattttatag acagagtctg attgtttcct 1680
358 caccactccc tccactctct ttctctatgc ctgttatttc tcagcgcgtt aagcatggct 1740
360 ttgttgggttgg agaaaaaccac gagggtcgac gaggtaagg tcaaggaccc ttcccgaggcc 1800
362 gacttggcc gcctcgagat cgagctggcc gaggttggaa tgcccgccct catggcctgt 1860
364 cggaccgagt tcggccctc ccagcccttc aaggggggcc gcatcaccgg ctccctccac 1920
366 atgaccatcc agaccgcgt ttcatttgc accctcaccg cccttggccg cggagtccgc 1980
368 tggtgctctt gcaacatctt ctccacccag gaccacgcgg cggccgtat tgcccgac 2040
370 agtgcgcgcg tcttcgcctg gaagggttgg accctccagg agtacttggg gtgcaccgag 2100
372 cgcgcgcctcg actggggccc cgggttggaa cccgacctca tgcgtcgacca cgggttggac 2160
374 gtcacccttc tcatccacga agggtgtcaag gcccggggc tctatgagaa gaccggcgaa 2220
376 ctccccgacc ccaactccac cgacaaacgcgg gagtttgcaga tgcgtcttac catcatcaga 2280
378 gatgggttga agaccgatcc caccaggatcg cgcacatgtt aggagcgctc cgttgggtt 2340
380 tctgaggaaa ccaccactgg agttaagagg ctctatcaga tgcaggcgaa tggactctt 2400
382 ctcttccctg ctattatgtt caatgactct gtccaccaaga gcaaggtaat gtctttttt 2460
384 ccccccagatc tagtgtctt ttgtgtttaa aatgttaggt tgaggatcgat tctttgttt 2520
386 ttggatgggt tttgtccat tggtaaaatg aggttttggaa cctgtcaact gtttactaa 2580
388 tgcctctaa gaagtctggaa tcggatttgg gtgttattttt agtgtgtttt gatctgtgt 2640
390 tggaaacgtc agaacattag taagttgcctt gctaaacgtca ctttaggtaa atggtcacat 2700
392 tttttatttac acaaataagg aatttatttgc gaggatcgat tttgttttgc agtactttt 2760

Use of a *z* and/or *Xaa* has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using *n* or *Xaa*.
→

VERIFICATION SUMMARY DATE: 01/26/2002
PATENT APPLICATION: US/10/037,598 TIME: 16:29:32

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01252002\J037598.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34